## D. In the Claims

10. (currently amended) A nonaqueous secondary cell, comprising:

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- (a) a positive electrode active material containing lithium composite manganese oxide having spinel structure whose primary particle diameter is not less than 0.05  $\mu$ m and not greater than 10  $\mu$ m, forming an aggregate, and whose specific surface area measured by the BET method is not less than 0.2 m<sup>2</sup>/g and not greater than 2 m<sup>2</sup>/g;
- (b) a negative electrode containing a material capable of reversively doping and dedoping lithium, wherein the material capable of reversively doping and dedoping lithium is at least one selected from the group consisting of a carbon material, metal lithium, lithium alloy, polyacene, and polypyrol; and
- (c) wherein the carbon material is at least one selected from the group consisting of pyrocarbon, coke, glassy carbon, organic polymer compound sintered body, and carbon fiber; and
- (d) wherein the lithium composite manganese active material is expressed by a general formula  $\text{Li}_x \text{Mn}_{2-y} \text{M}_y \text{O}_4$ , wherein  $.09 \le x \le 1.4$ ;  $y \le .3$ ; and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al.

## 11. Cancel.



12. (previously added) The nonaqueous secondary cell of claim 12 11, wherein the positive electrode comprises about 86% of the positive electrode active material, about 10% graphite, and about 4% polyvinylidene fluoride.

- 13. (previously added) A method of producing a positive electrode material active material for a non-aqueos electrolyte cell, comprising:
- (a) mixing a first ingredient with a lithium composite manganese oxide of about 86% by weight of the lithium composite manganese oxide;
  - (b) molding the mixture under pressure;
- (c) sintering the mixture at a temperature not lower than 600°C and not higher than 900°C.

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- 14. (previously added) The method of claim 13, further comprising pulverizing the sintered mixture.
- 15. (previously added) The method of claim 13, wherein the step of mixing the first ingredient further includes creating a slurry of 86% by weight of lithium composite manganese oxide, about 10% by weight of graphite, about 4% polyvinylidence fluoride, which then dissolved in a solvent.
- 16. (previously added) The method of claim 15, further comprising uniformly applying the slurry to aluminum foil to obtain a thickness of about 20 um.
- 17. (previously added) A nonaqueous electrolyte secondary cell, comprising:
- (a) a positive electrode containing as a positive electrode active material a lithium composite manganese oxide having spinel structure and whose primary particle diameter is not less than 0.05  $\mu$ m and not greater than 10  $\mu$ m, forming an aggregate, and whose specific surface measured by the BET method is not less than 0.2 m²/g and not greater than 2 m²/g;

- (b) a negative electrode containing a carbon material selected from the group consisting of pyrocarbon, coke, glassy carbon, organic polymer compound sintered body, and carbon fiber; and
  - (c) an electrolyte.
- 18. (previously added) The nonaqueous electrolyte secondary cell of claim 17, wherein the negative electrode contains a material capable of reversively doping and dedoping lithium.
- 19. (previously added) The nonaqueous electrolyte secondary cell of claim 18, wherein the material capable of reversively doping and dedoping lithium is at least one selected from the group consisting of a carbon material, metal lithium, lithium alloy, polyacene, and polypyrol.
- 20. (previously added) The nonaqueous electrolyte secondary cell of claim 17, wherein the positive electrode comprises about 86% of the positive electrode active material, about 10% graphite, and about 4% polyvinylidene fluoride.
- 21. (previously added) The nonaquous electrolyte secondary cell of claim 17, wherein the electrolyte is at least one selected from the group consisting of LiClO<sub>4</sub>, LiAsF<sub>6</sub>, LiPF<sub>6</sub>, LiB(C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>, LiCl, LiBr, CH<sub>3</sub>SO<sub>3</sub>Li, and CF<sub>3</sub>SO<sub>3</sub>Li.
- 22. (previously added) The nonaqueous electrolyte secondary cell of claim 17, wherein the electrolyte is dissolved in an organic solvent that is selected from the group consisting of propylene carbonate; ethylene carbonate; 1,2-dimethoxymethane; gamma-butyrolactone;



tetrahydrofuran; 2-methyltetrahydrofuran; 1,3-dioxolane; sulfolane; acetonitrile; diethyl carbonate; and dipropyl carbonate.